

WHAT IS CLAIMED IS:

1. A method for producing a ketone compound, which comprises dehydrating and reducing an acyloin in the coexistence of an acid catalyst and a reduction catalyst and in the presence of hydrogen.

5 2. The method for producing a ketone compound according to claim 1, wherein the acid catalyst is phosphoric acids or solid acids.

10 3. The method for producing a ketone compound according to claim 1, wherein the acyloin is a 2-hydroxycycloalkanone having from 12 to 18 carbon atoms.